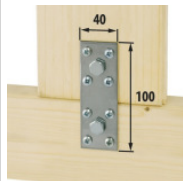





Budget :

20euros in Europe. Most of the material can be recycled from remaining stock or some packaging items.
The one in picture as been built from non used old wood plates and cost finally 2 euros

Necessary Raw Material :

Wood	Accessories	
2 wood plates for the board: <ul style="list-style-type: none"> 82 x 65 cm for 1st part 82 x 60 cm for 2nd part <i>I suggest using Medium-density fibreboard wood to use thin plates and avoid twisting effect in time</i>	8 metals plates + 16 wood screws	 <i>example</i>
2 A4 sized wood plate 10 mm thick for pawns	81 nails (without head) – 15mm long	
1A4 sized wood plate 12 mm thick for lances and knights	Varnish	
1 A4 sized wood plate 16 mm thick for the generals	White acrylic paint (optionnal)	
1 A4 sized wood plate 22 mm thick for rooks, bishops and kings	1 m of thin rope to do an handle	
10x35cm + 2x82cm wood bars (section 22x14mm for all) (82cm is linked to the board width and 35 is approximative)	2 belts	

Necessary Tools :

A circular or a jigsaw	A Hammer	White glue for paper
An electric drill (with a 2 & 8/10mm diameter drill)	A tape measure	A black ink permanent marker

Time : (depending your skills and tools)

1 day for the board and pieces

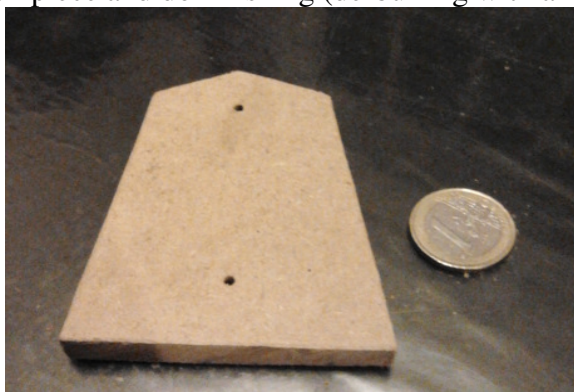
1 day for the pieces calligraphy and varnishing

1st STEP : THE PIECES CREATION

1. Print the A4 sized paper sheets with pieces patterns
See annex for the drawings of parts ready to be printed in final size
2. Glue each pattern on each wood plate



3. Use the 3 mil drill to do the 2 holes on each piece
The diameter must fit with the nails you will use for the board. Nails must be inserted inside.
The bigger these holes are the easiest it will be to clip pieces but the the more you will see them (take in account holes will expand with time and manipulations)
4. Use the saw to cut each piece
5. Unglue the paper of each piece and do finishing (de-burring with a lime or some sand paper)



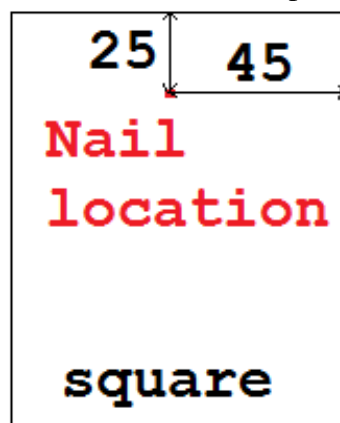
Finished part (before calligraphy step)

2nde STEP : THE BOARD CREATION

1. Place the 2 wood plates on the floor
2. Cut 2 wood bars as long as the board is large and place them apart
3. Draw the squares with a pencil ;
The squares are 105x90mm (3 times normal size)
Use a long ruler or you can use the wood bars to draw them if they are clean
4. When you are ok with the square pattern draw then with permanent black marker
Be careful at this step as there is no possibility to undo anything !



5. Place the nails locations with a small pencil mark but do not fix the nails :

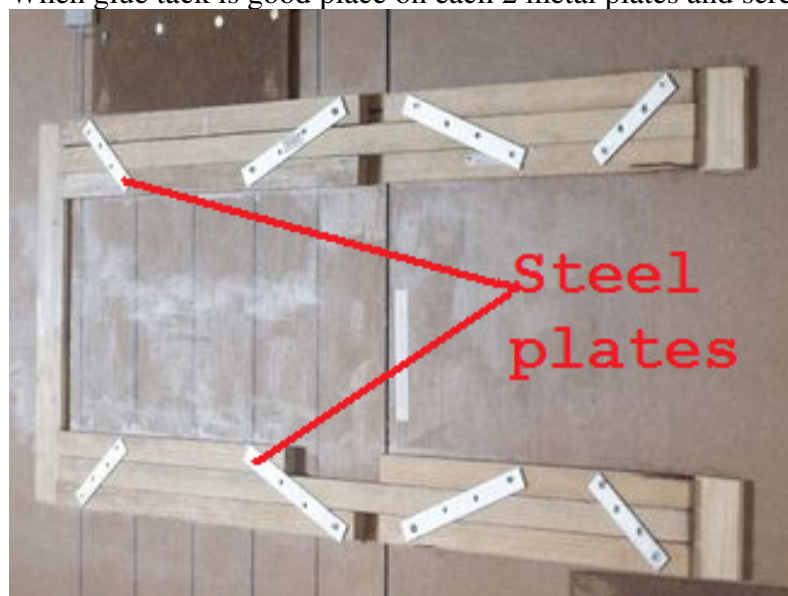


6. On top of the bigger board plate drill 2 large holes (8 to 10 mm is OK) to place latter the rope to do a handle
7. Varnish the 2 plates

8. Return the 2 plates and place the 2 82cm long wood bars
9. Place other 8 35cm long bars around the 2 first bars (4 bars per board plate) and glue them
Be careful the 2 82cm bars are not glued



10. When glue tack is good place on each 2 metal plates and screw them on the 4 bars



11. Glue small bars on board plates to finish blocking the 2 first bars



Now your board must be in 1 piece and can stand by itself on a wall and you must be able to separate the 2 board plates and the 2 central bars:



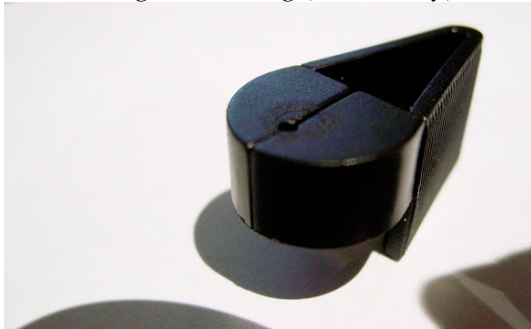
Front View



Rear View

12. Varnish the small bars added in step 11
13. Place the rope in the 2 large holes to create a handle
14. Show the board faces and nail the nails to the board. Nail must be 10 mm long

To have a good nailing (verticality) I used thid great small gadget from Ikea :





How to Build a Foldable Large Size Shogi Ban



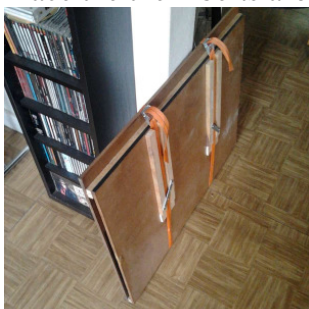
3rd STEP : THE PIECE CALLIGRAPHY

1. Place the pieces on the board
2. If necessary extend the holes you did to clip the pieces on the nails
3. Check if contrast between board and pieces is acceptable for you. If not you can clear your pieces with a light white acrylic paint (as I did)
4. Paint the Kanjis of unpromoted pieces
5. After few hours, return the pieces and paint the promoted parts
I used red paint as I consider it is helpful for beginners (even more with non pro kanjis)
6. After few hours (I recommend 1 day) varnish the pieces once or twice (the more layers you apply the more protected pieces are)
7. Check holes are not filled with paint or varnish (use nail to reopen the holes if necessary)
8. Place pieces on the board, take a picture and share it on Facebook prior to celebrate your great achievement with a Tea – Beer – Sake (circle your best choice) :-)



HOW TO FOLD YOUR BAN ?

1. Remove pieces from the ban
2. Isolate the 2 board plates and the 2 wood bars
3. Place vertically the biggest board part on a wall
4. Place the the 2 belts around it by using the bar « channel » to fix them without closing them



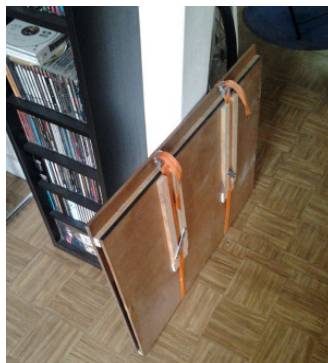
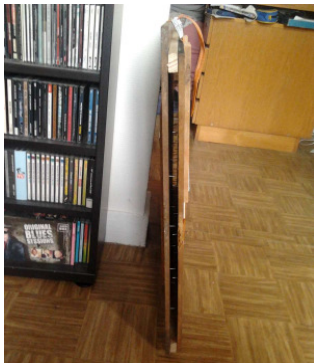
Orange belts through the “channel”

5. Place the 2 bars on top and bottom on the playing surface



6. Place the 2nd part of the board close to the bars (nails must not touch the other plate thanks to the bar thickness)
7. Place the 2 belts through the channels of the 2nd plate and close them.

Final result must be like that :





How to Build a Foldable Large Size Shogi Ban



ANNEXES

Following pages contains the paper sheet at 1:1 scale of the pieces patterns. Print them and glue them of the wood plates to cut the pieces (*there is no additional pawn in these pages*).

Parts name are in French. Here is the translation:

- Pion = Pawns
- Lancier = Lance
- Cavalier = Knight
- Generaux = General
- Fou = Bishop
- Tour = Rook
- Roi = King

